BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Government (1897) of Madras.

PUBLIC WORKS.

Recd. } 1897. *Enclosures*

Regd. *Spare copies*

G.O., No. 796 I., 1st September 1897.

SEPTEMBER.

Periyar Project

Estimate of Rs. 9,300 for excavating No. 8 distributary taking off at 7 miles 3,440 feet on the left bank of the 12th Branch channel, —. sanctioned and a copy of the Proceedings ordered to be forwarded to the Government of India.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers :—

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 6th August 1897, No. 1111 M.D.

I have the honour to forward, for your approval and sanction, plans and estimates, the latter amounting to Rs. 7,600, connected with the excavation of the 8th distributary channel and its masonry works taking off on the left bank of the 12th Branch channel at 7 miles and 3,440 feet.

2. The length of the channel is 12,200 feet, or 2 miles and 1,640 feet. The general fall of the ground is 20·77 feet per mile. Four drops—two of 6 feet and two of 5 feet—are provided, of which one is combined with a bridge for the main road leading from Mélúr to Tiruppattúr at 2,100 feet from the head of the channel. The combination of this drop and bridge does not appear to be objectionable, as the foundations for both are on the same level.

3. At 80 chains, a masonry wall 600 feet long is proposed to be constructed on a ledge of rock by which the water will be dropped 12·80 feet in that distance.

4. The design for the byewash is weak and it will probably leak. It would be better to substitute a masonry wall for the body.

5. The return expected is roughly computed at Rs. 5,000 per annum. The estimate is classed as remunerative, and the probable completion of the work is 31st March 1899.

6. The usual mileage statement is attached to the estimate which gives hydraulic information in addition.

7. The estimate is submitted for sanction.

Enclosures.

Estimate for excavating Distributary No. 8 of the 12th Branch Channel, Periyár Project.

	RS.
Amount of estimate	7,600

This distributary takes off the left bank at 7 miles 5 furlongs 140 feet of the 12th Branch channel and, after crossing the Mélúr-Tiruppattúr road, will irrigate 1,000 acres of land to the north.

2. For the greater part of its course it skirts the ridge of bare rocks called the Manjamalai, and as it is practically impossible to calculate the discharge from these hills which might be 90 per cent. of the rainfall, several inlets and outlets have been provided wherever considered necessary, and if found insufficient, they can be extended at any time.

3. The alignment of this channel was difficult as may be seen from the survey with levels, and it was found necessary at one point to run it along a ledge of rock by a retaining wall with a heavy fall. By this means a masonry fall was saved, and the continual breaches that would have occurred with a bank on a sheet of rock have been avoided.

4. The channel will carry a depth of $1\frac{1}{2}$ feet for its ordinary full supply at the rate of 75 acres to the cubic foot—a maximum depth of $2\frac{1}{2}$ feet—to supply the Siruvanai tank at such times as are convenient; and the banks are sufficiently strong to allow a depth of $1\frac{1}{2}$ feet over the outlet weirs, or 4 feet in all.

11th May 1897.

(Signed) T. W. S. SMYTH,
Ex. Engineer, Special Periyár Works.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual work.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.	Remarks.
1	2	3	4	5	6	7
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS.	RS.	RS.	
	49. IRRIGATION.					
	Periyár Project.					
	Open Capital Account.					
	3. Distributaries.					
	12th Branch Channel.					
	Remunerative Work.					
	Excavating No. 8 Distributary taking off at 7 miles 3,440 feet on the left bank.					
2. Lands ..	1. Compensation for land ..	390	390			
3. Works ..	2. Head sluice	200				
	3. No. 1 drop at 0 mile and 2,100 feet with road bridge.	740				
	4. Fall No. 2 at 0 mile and 2,800 feet.	450				
	5. Two falls Nos. 3 and 4 at 0 mile and 4,800 feet and 0 mile and 5,200 feet, Rs. 400 each.	800				
	6. Culvert at 59th chain ..	710				
	7. Masonry wall from 80th to 86th chain.	820				
	8. Two 25-ft. byewashes, Rs. 80 each.	160				
	9. One earthenware pipe sluice, 6″ diameter.	50				
	10. Two earthenware pipe sluices 9″ diameter, Rs. 75 each.	150				
	11. One tail drop	50				
	12. One ramp	10	4,140			
4. Earthwork.	13. Cutting distributary ..	3,041	3,041			
5. Miscellaneous.	14. Demarcation stones ..	29	29			
	Total .. I Works ..	..		7,600		
	II Establishment ..	..	..	1,658		
	III Tools and Plant ..	..	..	42		
	Total estimate ..	..	..	9,300		

14th August 1897.

(Signed) O. V. BODDY, Lieut.-Col., R. E.,
Supg. Engineer, VI Circle.

No. 164 I.

Submitted to Government.

2. The estimate for Rs. 7,600, submitted by the Superintending Engineer, VI Circle, provides for the excavation of No. 8 distributary channel which takes off at 7 miles 3,440 feet on the left bank of the 12th Branch channel, Periyár project. The

distributary will be 2 miles 1,640 feet long and be entirely maintained by Government. The acreage under it will be 1,000 acres, and the revenue expected is about Rs. 3,000 per annum. The work may be classed as "remunerative." The vent of the head sluice should be increased to $2\frac{1}{2}' \times 2\frac{1}{2}'$. A masonry outlet should be built at 95 chains instead of a roughstone byewash. The Superintending Engineer should have made this alteration instead of recommending it.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

20th August 1897.

Order—No. 796 I., dated 1st September 1897.

The estimate amounting to Rs. 9,300, including establishment and tools and plant charges, for excavating No. 8 distributary taking off at 7 miles 3,440 feet on the left bank of the 12th Branch channel, Periyár project, is sanctioned.

2. This sanction is registered as No. 74 I. of 1897–98 and will expire on the 31st March 1899.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 797 I., dated 1st September 1897.]

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, VI Circle, with 32 enclosures.
" Examiner, Public Works Accounts.

Exd. T. K. Narayana Aiyangar.

His Excellency the Governor.

No. 796-97 I, D/ 1-9-97

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Estimate for No 8 distributary of the 12th Branch channel of the Periyar Project.—

UNDER date the

READ the following

From the Supery. Engineer, Sixth Circle, (H.E. No 1111-M.D. dated 6.8.97).

No 164. I dy 20.8.97

Submitted to Government.

2. The estimate for Rupees 7,600 submitted by the Supery. Engineer, Sixth Circle, provides for the excavation of No 8 Distributary Channel which takes off at 7 miles 3440 ft. on the left bank of the XII Branch channel, Periyar Project. The distributary will be 2 miles 1640 ft. long and be entirely maintained by Government. The acreage under it will be 1000 acres and the revenue expected is about Rs 3000 per annum. The work may be classed as "remunerative."

Issue

WH 31.8.97

The vent of the head sluice should be increased to 2½ x 2½. A masonry outlet should be built at 95 chains instead of a rough stone bywork. The S.E. should have made these alterations instead of recommending it.

No. 796 I, D/ 1-9-97.

Order thereon.

The estimate amounting to Rupees 9,300 including Establishment and Tools & plant charges, for excavating

excavating No. 8 Distributary taking off at 7 miles 3,440 ft. on the left bank of the XII Branch Channel, Periyar Project, is sanctioned.

2. This sanction is registered as No. 74 I. of 1897-98 and will expire on the 31 March 1899.

3. Ordered that a copy of these Proceedings be forwarded to the Govt. of India for information.

No. 797 I. 8, 1-9-97.

Endorsement.

Forwarded.

W.H.
20.8.97

19/8/97.

18/8/97.

A.54
23.8.97

1/9/97

To The Chief Engineer for Irrigation.
" Supt. Engineer, Sixth Circle with 32 enclos.
" Examiner, P.W. Accts.
18/9/97

E. I. Form No. 1—1,000—2-2-97.

Public Works (1897) Department.

CURRENT No. 8709

Order

From The Chief Engineer for Irrigation

No. 164-I

Dated 20-8-97.

Received 31-8-97

Enclosures ~~22~~ 35 (10 plans)

Spare copies

SUBJECT.

No 8. Distributary of the 12' Bch Channel of the Periyar Project Estimate for — Submits for Sanction the —

7.E.J.

1/9/97

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

C.E.I.
10-8-97.

Public Works (1897) Department.

CURRENT No. 99 M.D.

Order

From
The Supg Engineer
VI. Circle

No. 1111.M.D

Dated 6th August 1897.
Received 9 — Do —
Enclosures 21. (Sent Separately)
Spare copies

SUBJECT.

VIII. Distributary Channel taking off on the L.B. of the 12th Branch Channel Periyar — Forwards with remarks for approval and Sanction plans and Estes ~~of~~ for Rs 7600. For the Excavation of the ——

To C.E.I. to check estimate
J.J.B. 9/8/97

S.E.I.

The estimates have been checked
Sd/-
17/8/96
Sd/-
17-8-97.

Draft despatch for approval.
Sd/-
18/8/97

Sd/- 9/8

Sd/- 9/8/97

10-8-97

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Periyar Project.

348 P.W.D. 5 MAR 1897 CIRCLE

Estimate for Excavating Distributary No: 8 of the XII th Branch Channel.

No. 138 E / 3.3.97

—:—

Amount of Estimate Rs 11410 7600

This distributary takes off the left bank at 7 miles, 5 furlongs 140' of the XII th Branch Channel and after crossing the Melur-Tripattur road will irrigate 1000 acres of land to the north.

Enclo– tracings 11 sets 22

2. For the greater part of its course, it skirts the ridge of bare rocks called the [illegible] and as it is practically impossible to calculate the discharge from these hills which might be 90 per cent of the rainfall, several inlets and outlets have been provided wherever considered necessary and if found insufficient, they can be extended at any time.

3. The alignment of this channel was difficult as may be seen

from

from the survey with levels and it was found necessary at one point to run it along a ledge of rock by a retaining wall with a heavy fall. By this means a masonry fall was saved and the continual breaches that would have occurred with a bank on a sheet of rock have been avoided.

4. The channel will carry a depth of 1½ ft for its ordinary full supply at the rate of 75 acres to the C.ft. a maximum depth of 2½ ft to supply the Seruvanai Tank at such times as are convenient and the banks are sufficiently strong to allow a depth of 1½ feet over the outlet weirs or 4 feet in all.

F W Smyth
Executive Engineer
Special Periarworks

3.3.97
11/5/97

CHIEF ENGINEER FOR IRRIGATION. 9 AUG 1897

Ow 5.2 8909/97

Rpt

ESTIMATE FORM—ABSTRACT—CLASSIFIED.

Sub-head.	Names of Works.	Amount of Estimate for individual Work. Rs	Total of Sub-heads. Rs	Total for each Canal or Distributary. Rs	Total of each main head. Rs	REMARKS.
1	2	3	4	5	6	7
	Capital Expenditure not charged to Revenue.					
	49. Irrigation.					
	Periyar Project.					
	Open Capital Account.					
	~~3. Distributaries~~ ~~at 7 miles 3440 feet on the Left bank~~					
	XI - Branch Channel ~~Remunerative works~~					
	Remunerative Work.					
	Excavating No. 8 ~~Distributary~~ taking off at 7 miles 3440 ft. on the left bank					
2 Lands	(1) Compensation for land	390				
			390			
3. Works	(2) Head Sluice	200				
	(3) No 1 - drop at 0 m & 2100 feet with road Bridge	740				
	(4) Fall No 2 at 0 m. & 2800 ft	450				
	(5) 2 - Falls No 3 & 4 at 0 m. & 4800 ft & 0 m & 5200 ft Rupees 400 each	800				
	(6) Culvert at 59th chain	710				
	(7) Masonry wall from 80th to 86th chain	820				
	(8) 2 - 25 ft. bywashes Rs ~~160~~ 80 each	160				
	(9) 1 - Earthen ware pipe sluice 6" diameter	50				
	(10) 2 Do - do. 9" dia Rs. 75 each	150				
	(11) 1 - Tail drop	50				
	(12) 1 - Ramp	10				
			4140			
4 - Earth work	(13) Cutting Distributary	3041				
			3041			
5 - Miscellaneous	(14) Demarkation Stones	29	29			
	Total ~~Rupees~~ I - Works			7600	7600	
	II - Establishment			~~7700~~ 1658		
	III - Tools & plant			42		
	Total Estimate			9300		

Remarks (in red): Sanctioned in G.O. No. 961 of 1897. R/1.9.97 Registered 7th Aug 1897.

7600
1658
42
9300

STATION
Dated 188 }

[illegible] Lt. Col. R.E.
Supg. ~~Executive~~ Engineer.
4-8-97

Ched [illegible] 17/18

P. W. D. Madras
Form No. M. 77 g.

REFERENCE TO MADRAS P. W. D. CODE,

CHAPTER VII—PARAS 968 & 968 A.

ESTIMATE FORM—ABSTRACT CLASSIFIED.

IRRIGATION.

XII Branch Channel

Sixth CIRCLE.

CHIEF ENGINEER FOR IRRIGATION. 9 - AUG. 1897 No.

DIVISION— Madura

DISTRICT— Madura

To accompany the Detailed Estimate No.

of 188 -8 . for * 8th Distributary at 7 miles 3440 feet on the left bank of XII Branch channel.

* Here enter the Name and Description of work in full.

Pus. 6
8909/99

No. 1111. E.D.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE,

Trichinopoly, 6th August 1897.

From Lieutt: Col. O.V. Boddy R.E.
The Sperintending Engineer,
6th Circle.

To

The Chief Engineer, for Irrigation.

SIR,

21 ENCLOSURES. *
1. Site survey.
2 Sheets of Longl. Section.
1. General Estte. with report, mileage statement, & classified abstracts &c complete.
1. Detailed Estte. for earth work.
9. Estimates.
7. Masonry plans.

* Sent Separately.

I have the honor to forward for your approval and sanction, plans and estimates, the latter amounting to Rs 7600, connected with the excavation of the 8th Distributary channel and its masonry works taking off on the L. B of the 12th Branch channel at 7 miles and 3440' feet.

2. The length of the channel is 12,200 feet or 2 miles and 1640 feet. The general fall of the ground is 20.77' per mile. 4 drops, 2 of 6' and 2 of 5', are provided of which one

200—20-4-97

one is combined with a bridge for the main road leading from Melur to Tirupppathur at 2,100 feet from the head of the channel. The combination of this drop and bridge does not appear to be objectionable as the foundations for both are on the same level.

3. At 80 chains, a masonry wall 600' long is proposed to be constructed on a ledge of rock by which the water will be dropped 12.80' in that distance.

4. The design for the byewash is weak and it will probably leak. It would be better to substitute a masonry wall for the body.

5. The return expected is roughly computed at Rs 5,000 per annum. The estimate is classed as remunerative

-nerative and the probable completion of the work is 31st March 1899-

6. The usual Mileage statement is attached to the estimate which gives hydraulic information in addition.

7. The estimate is submitted for sanction.

I have the honor to be
Sir
Your most obdt. servt.

[illegible] Lieutt: Col. R.E.

Supg. Engineer 6: Circle

P. W. D. 6th CIRCLE.

FROM

THE SUPERINTENDING ENGINEER,

6TH CIRCLE.

[illegible] FOR [illegible] ON.
9 AUG 1897
No. 99 M.D.

TO

THE CHIEF ENGINEER,

NO.

Dated. }
Received. } 189 .

Enclosure.

[illegible]
8709/97